

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of: PRASHER

) Examiner: Not yet assigned

) Group Art Unit: Not yet assigned

Filing Date: Filed herewith INTEL Docket No.: P18285

For: COOLING AN INTEGRATED CIRCUIT DIE WITH COOLANT FLOW IN A MICROCHANNEL AND A THIN FILM THERMOELECTRIC COOLING DEVICE IN THE MICROCHANNEL

MS PATENT APPLICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

Sir:

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled: COOLING AN INTEGRATED CIRCUIT DIE WITH COOLANT FLOW IN A MICROCHANNEL AND A THIN FILM THERMOELECTRIC COOLING DEVICE IN THE MICROCHANNEL

and invented by: PRASHER

## Enclosed are:

- 1. ☑ Filing Fee as calculated and transmitted as described below
- 2. Specification having 15 pages and including the following:
  - a. Descriptive Title of the Invention

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		b.	b. □ Cross references to Related Applications (if applicable)							
		c.		Statement Regarding Federally-sponsored Research/Development						
		d.		Reference to Microfiche Appendix (if applicable)						
		e.	$\overline{\mathbf{A}}$	Background of the Invention						
		f.		Brief Summary of the Invention						
		g.		Brief Description of the Drawings (if drawings filed)						
		h.		Detailed Description						
		i.		Claim(s) as Classified Below						
		j.		Abstract of the	e Disclosure					
3.		Drawing(s) (when necessary as prescribed by 35 USC 113)								
		a.		Formal	Number of Sheets 6					
		b.		Informal	Number of Sheets					
4.		Oath or Declaration								
		a.	$\overline{\mathbf{Q}}$	Newly execut	ed (original or copy)	☐ Unexecuted				
		b.		Copy from a p	prior application (37 CFR 1.63	(d))				
		c.		With Power o	f Attorney	☐ Without Power of Attorney				
		d.		Signed statem	OF INVENTOR(S) ent attached deleting inventor(0.63(d)(2) and 1.33(b).	(s) named in the Prior Application,				
5.		The dec	Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.							
6.		As	Assignment Papers (cover sheet & documents(s))							
7.		37	37 CFR 3.73(B) Statement (when there is an assignee)							
8.		En	English Translation Document (if applicable)							
9.		Inf	formation Disclosure Statement/PTO-1449							
10.		Preliminary Amendment								
11.	$\square$	Acknowledgement Postcard								
12.	☑	Ma	iled	l Via						
			Firs	t Class	☑ Express Mail (Specify Labe	l No.) EL963890492US				
13.		Ce	Certified Copy of Priority Document(s) (if foreign priority is claimed)							
14.		Request and Certification under 35 USC 122(b)(2)(B)(i) (attach PTO/SB/35)								
15	$\nabla$	Additional Enclosures: Credit Card Payment Form								

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## **FEE CALCULATION**

For	No. Filed	No. Allowed	No. Extra	Rate	Fee
Total Claims	28	- 20	8	\$ 18.00	\$ 144.00
Indep. Claims	3	- 3	0	\$ 86.00	\$ 0.00
Multiple Depend		\$ 0.00			
	BASIC FEE	\$ 770.00			
OTHER FEE (		\$ 0.00			
	\$914.00				

Credit Card Authorizations for \$914.00 and \$40.00 are enclosed.

The Commissioner is hereby authorized to charge and credit Deposit Account No. <u>50-1852</u> as described below. A duplicate copy of this sheet is enclosed.

☑ Credit any overpayment.

☑ Charge any additional fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,

March 29, 2004

Date

Nathaniel Levin

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